MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

General Impact Glass and Windows, Corp. 290 West 78th Road Hialeah, Florida 33014

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "High Impact 125" Aluminum Accordion Shutter System

APPROVAL DOCUMENT: Drawing No. 12-047, titled "High Impact 125 Accordion Shutter System", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated February 20, 2012, last revision #1 dated February 20, 2012, signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 11-0516.01 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

Helm A. Mod. 12-0507.08

8/09/2.012

NOA No. 12-0507.08

Expiration Date: 05/18/2016

Approval Date: 08/09/2012

Page 1

General Impact Glass and Windows, Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-1122.08

A. DRAWINGS:

1. Drawing No. 05-293, titled "High Impact 125 Accordion Shutter System", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated September 19, 2005, last revision #1 dated April 18, 2006, signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS

1. See Association's generic approval under 05-0397.

C. CALCULATIONS

1. See Association's generic approval under 05-0397.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. See Association's generic approval under 05-0397.

F. STATEMENTS

- 1. Release letter issued by the Comprehensive Quality Impact Products Association, Inc. High Impact 125 Accordion Shutter System., dated February 15, 2006, certifying this product to meet the criteria of product tested and approved, and allowing General Impact Glass and Windows, Corp. to use the test results approved under Miami-Dade County Approval No. 05-0397, signed by Legny Santana.
- 2. Acknowledgment letter by General Impact Glass and Windows, Corp., dated January 26, 2006, signed by Avi Bouman.
- 3. Letter by Tilteco Inc., dated November 21, 2005, certifying that the drawing (No. 05-293) prepared for General Impact Glass and Windows, Corp., signed and sealed by Mr. Walter A. Tillit, Jr., P.E., is engineering wise identical to Comprehensive Quality Impact Products Association, Inc. High Impact 125 Accordion Shutter System generic drawing (No. 05-332).

Helmy A. Makar, P.E., M.S.

Product Control Unit Supervisor NOA No. 12-0507.08

Expiration Date: 05/18/2016
Approval Date: 08/09/2012

General Impact Glass and Windows, Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0516.01

A. DRAWINGS:

1. Drawing No. 11-046, titled "High Impact 125 Accordion Shutter System", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated May 09, 2011, last revision #1 dated May 09, 2011, signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS

1. See Association's generic approval under 11-0596.

C. CALCULATIONS

1. See Association's generic approval under 11-0596.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building and Neighborhood Compliance Department.

E. MATERIAL CERTIFICATIONS

1. See Association's generic approval under 11-0596.

F. STATEMENTS

- 1. Release letter issued by the Comprehensive Quality Impact Products Association, Inc. High Impact 125 Accordion Shutter System., dated May 12, 2011, certifying this product to meet the criteria of product tested and approved, and allowing General Impact Glass and Windows, Corp. to use the test results approved under Miami-Dade County Approval No. 11-0596, signed by Jose Zuniga.
- 2. Acknowledgment letter by General Impact Glass and Windows, Corp., dated June 20, 2011, signed by Jose Zuniga.
- 3. Letter by Tilteco Inc., dated March 07, 2011, certifying that the drawing (No. 11-046) prepared for General Impact Glass and Windows, Corp., signed and sealed by Mr. Walter A. Tillit, Jr., P.E., is engineering wise identical to Comprehensive Quality Impact Products Association, Inc. High Impact 125 Accordion Shutter System generic drawing (No. 11-045).

Heimy A. Makar, P.E., M.S. Product Control Unit Supervisor

oduct Control Unit Supervisor NOA No. 12-0507.08

Expiration Date: 05/18/2016 Approval Date: 08/09/2012

General Impact Glass and Windows, Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS:

1. Drawing No. 12-047, titled "High Impact 125 Accordion Shutter System", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated February 20, 2012, last revision #1 dated February 20, 2012, signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

F. OTHERS

- 1. Compliance letter per the FBC 2010, issued by Tilteco, Inc., dated May 02, 2012, signed and sealed by Walter A. Tillit Jr., P.E.
- 2. Letter dated May 01, 2012, signed by Antonio Zuniga, requesting to close the Comprehensive Quality Impact Products Association File # 11-0596 and transfer all assets to General Impact Glass and Windows, Inc.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

> NOA No. 12-0507.08 Expiration Date: 05/18/2016

Approval Date: 08/09/2012

GENERAL NOTES:

1. HIGH IMPACT 125' ACCORDION SHUTTER SYSTEM SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P. A. D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2007 & 2010** EDITIONS OF THE FLORIDA BUILDING CODE. THIS ACCORDION SHUTTER SYSTEM MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620** OF THE ABOVE MENTIONED CODES, USING ASCE 7-05 STANDARD FOR INSTALLATIONS UNDER 2007 FBC & ASCE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 6, 7 & 8.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7—10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 6. 7 & 8.

- IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS <u>NOT</u> USED IN THEIR ANALYSIS. A DURATION FACTOR CD=1.60 WAS USED TO VERIFY ANCHOR SPACINGS IN WOOD. HIGH IMPACT 1.25° ACCORDION SHUTTER SYSTEM'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1626** OF THE ABOVE MENTIONED CODE AS PER FTL REPORTS # 4715 AND 4717, AS PER TAS-201, TAS-202 AND TAS-203 PROTOCOLS.
- 2. HIGH IMPACT 125' ACCORDION SHUTTER SYSTEM PINS USED AT BLADES KNUCKLE SHALL BE # 14 X 2 3/4" (MIN.) 410—HT MINIMUM SERIES STAINLESS STEEL SCREWS WITH 135.0 ksi YIELD STRENGTH AND 180 ksi TENSILE STRENGTH. PINS SHALL BE COATED WITH XYLAN 5000 SERIES FLUOROPOLYMER COATING AS MANUFACTURED BY WITHFORD CO. BOX 507. WEST CHESTER PA. 19381.
- 3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH Fy = 31.0 ksi MINIMUM.
- 4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 AND SECTION 2411,3.3.4 OF THE FLORIDA BUILDING CODE 2007 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH.
- 5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL WITH 35 kgi MINIMUM YIELD STRENGTH.
- 6. SEE SHEET 8 OF 8 FOR ANCHORS SPECIFICATIONS. SEE SHEET 7 FOR MAXIMUM A.S.D. DESIGN LOAD VS SPAN SCHEDULE.
- 7. THIS HIGH IMPACT 125° ACCORDION SHUTTER SYSTEM IS PATENT PENDING. COMPONENTS OF THIS APPROVAL ARE COVERED, IN WHOLE OR IN PART BY U.S. PATENT ISSUED TO GENERAL IMPACT GLASS AND WINDOWS, CORP.
- 8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.

 CONTRACTOR TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.
- 9. EACH UNIT MUST BEAR A PERMANENT LABEL IN A VISIBLE PLACE WITH WARNING NOTE INSTRUCTING THE TENANT OR HOME OWNER THAT LOCK (M) MUST BE PROPERLY LOCKED DURING PERIODS OF HURRICANE WARNING. FOR EGRESS CONDITIONS, AN INSIDE LOCK (M) (WHERE KEY MUST REMAIN IN THE LOCK), OR AN EGRESS LOCK (M) SHALL BE USED.
- 10. SHUTTER'S MANUFACTURER STAMP SHALL BE PLACED ON THE EXPOSED SURFACE OF THE CENTERMATE "(L)" OR "(L1)".

ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS: GENERAL IMPACT GLASS AND WINDOWS, CORP... HIALFAH. FL.

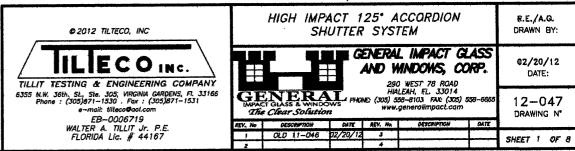
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

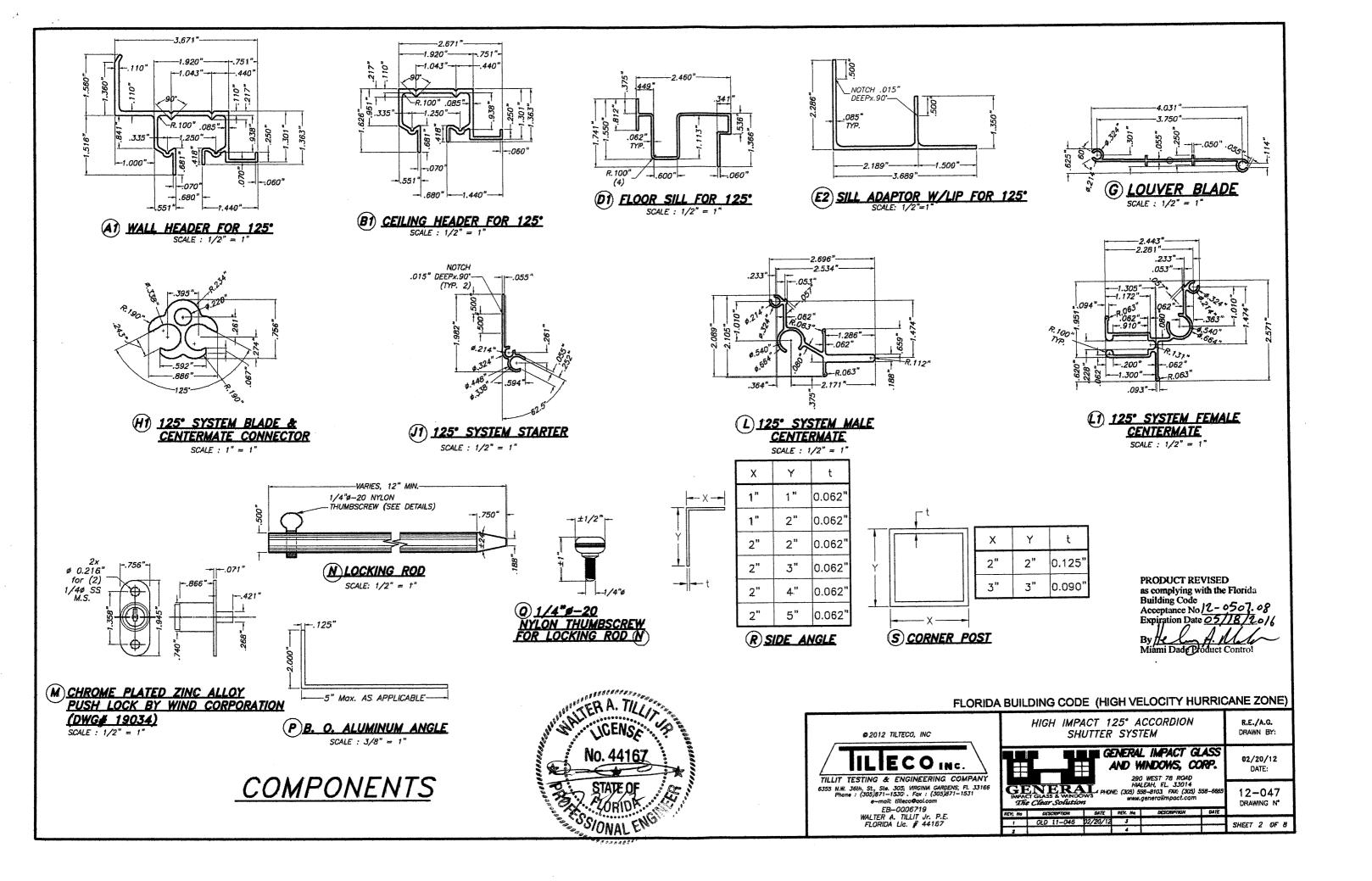


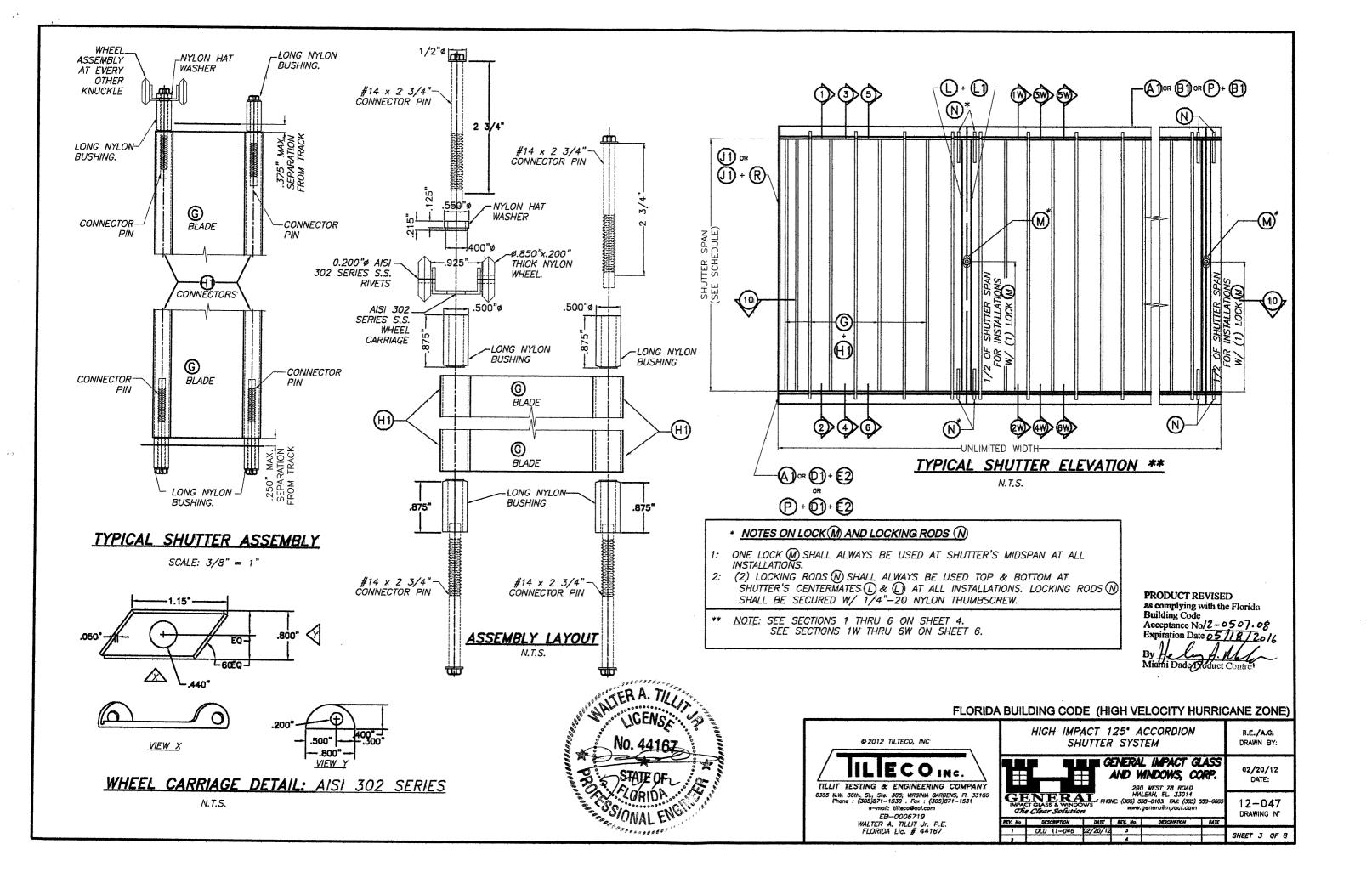
- 11. HIGH IMPACT 125° ACCORDION SHUTTER SYSTEM'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
- 12. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- 13. SHUTTER'S MANUFACTURER STAMP SHALL BE PLACED ON THE EXPOSED SURFACE OF THE CENTERMATE "()" OR "()".
 ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:
 GENERAL IMPACT GLASS AND WINDOWS, CORP.
 HALEAH, FL.

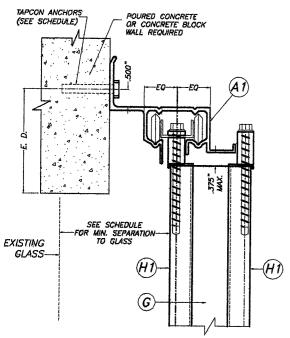
PRODUCT REVISED as complying with the Florid:
Building Code
Acceptance No 12-0507.08
Expiration Date 05/18/20/6

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

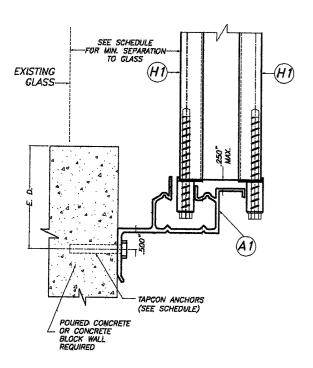






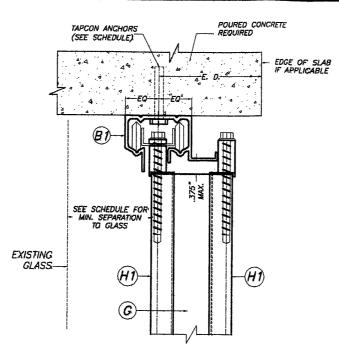


SECTION 1: WALL MOUNTING INSTALLATION

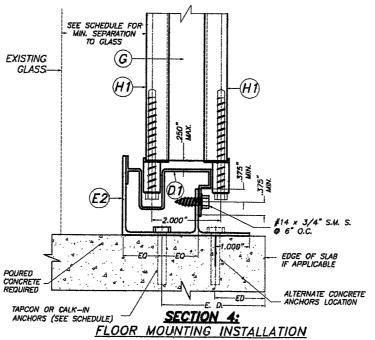


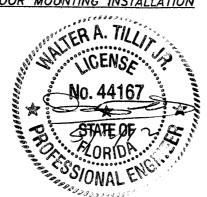
SECTION 2: WALL MOUNTING INSTALLATION

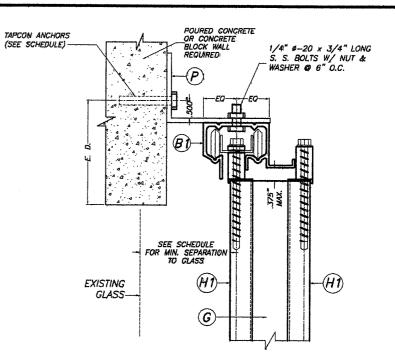
INSTALLATION DETAILS



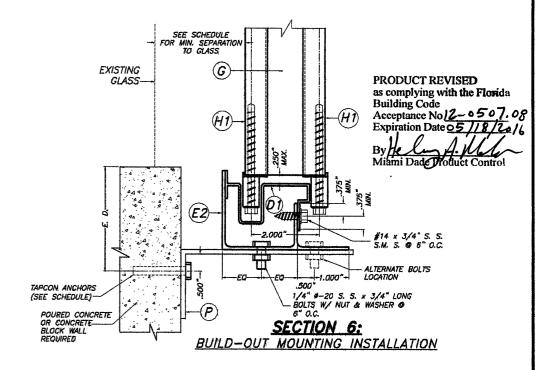
SECTION 3: CEILING MOUNTING INSTALLATION







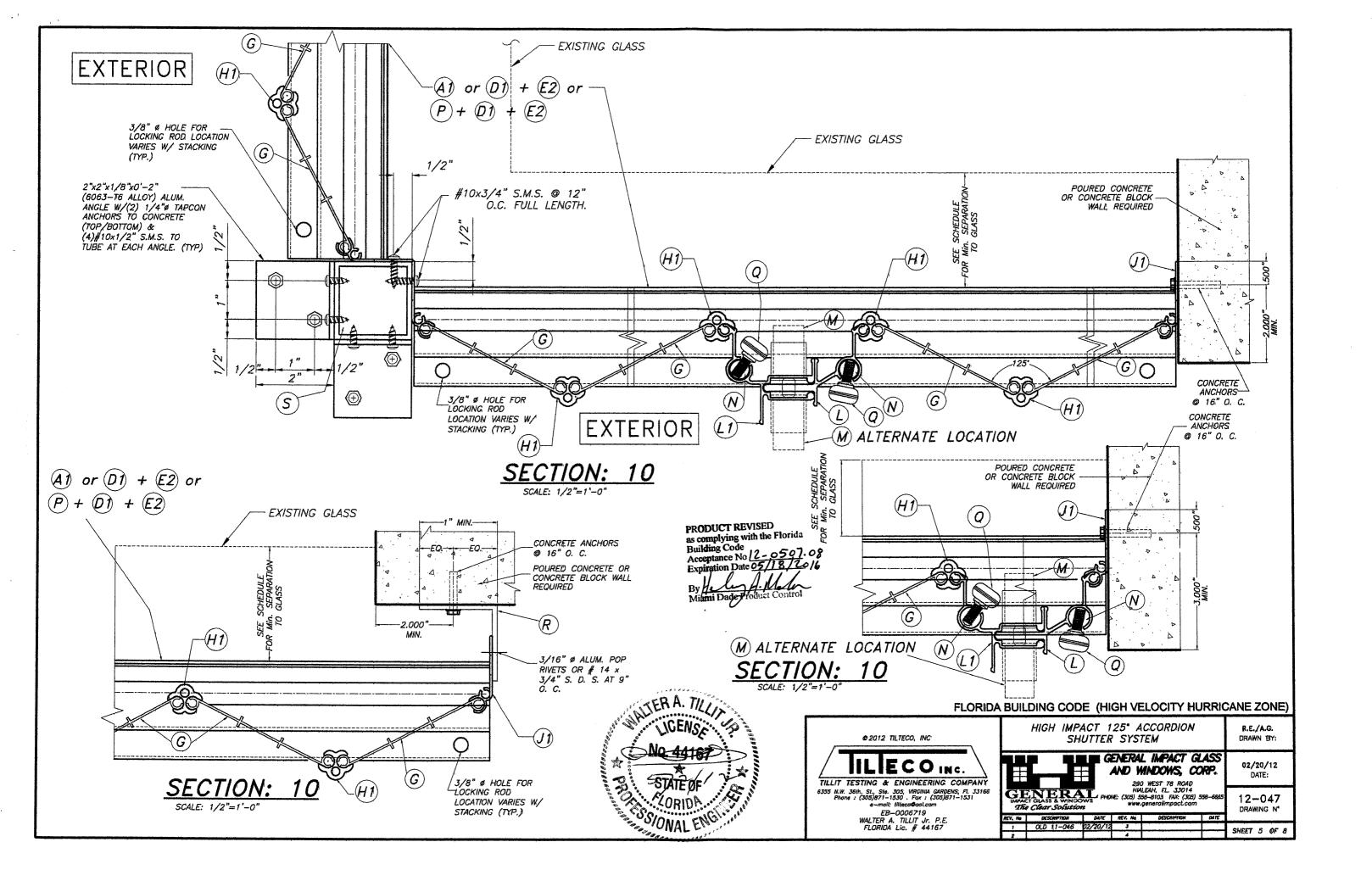
SECTION 5:
BUILD-OUT MOUNTING INSTALLATION

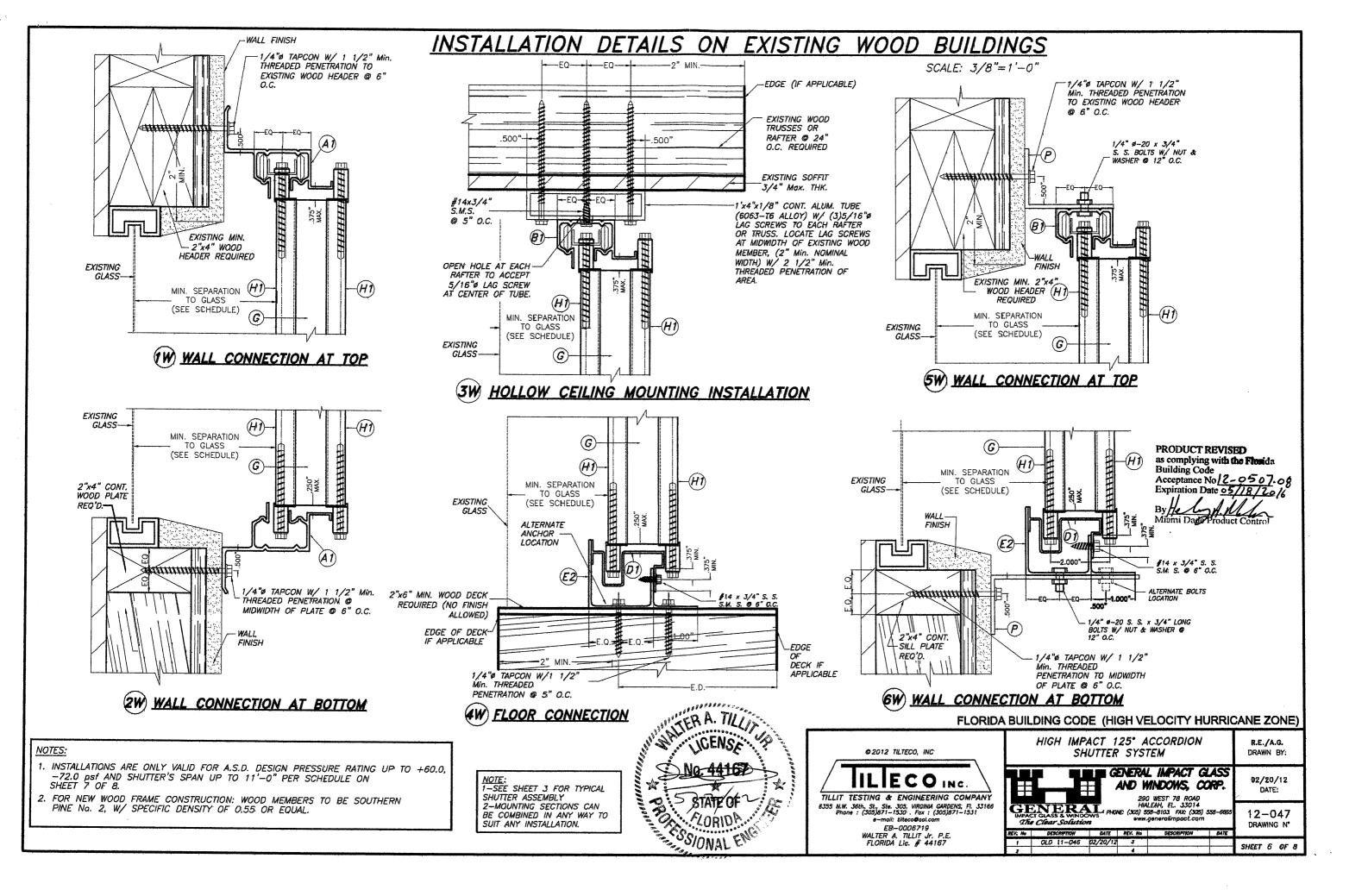


FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)



		ACT 1 UTTER		CCORDION TEM		R.E./A.G. DRAWN BY:
			4ND V	L IMPACT G UNDOWS, C O WEST 78 ROAD		02/20/12 DATE:
HIALEAH, FL. 33014 IMPACT GLASS & WINDOWS PHONE (305) 558-8103. FAX (305) 558-6665 The Clear Societion WWW.generolimpact.com BEV, No. DESCRIPTION DATE BEV, No. DESCRIPTION DATE					12-047 DRAWING N°	
1	OLD 11-046	11.11	3	September 17 and		SUFET A OF B





MAXIMUM SHUTTER SPAN "L+" OR "L-" (ft.) *
INSTALLATIONS W/ () AND (1) 125" CENTERMATES, ONE (M) LOCK & LOCKING RODS(N)

MAX. A.S.D. DESIGN PRESSURE	CONCRETE & CONCRETE BLOCK INSTALLATIONS			
RATING (p.s.f.)		MOUNTING CONDITIONS PER SECTIONS 1 THRU 6		
(+ QR -)	L + (ft)	L - (ft)		
30 OR LESS		11'-0"		
35	9'-6"	11'~0"		
40	9'-2"	11'-0"		
45	8'-11"	10'-8"		
50	8'-8"	10'-4"		
55	8'-6"	9'-11"		
60	8'-3"	9'-6"		
65	8'-1"	9'-2"		
70	7'-11"	8'-10"		
75	7'-5"	8'-3"		
80	6'-11"	7'-9"		
85	6'-6"	7'-3"		
90	6'-2"	6'-10"		
95	5'-10"	6'-6"		
100	5'-6"	6'-2"		
105	5'-3"	5'-11"		
110	5'-0"	5'-7"		
115	4'-10"	5'-4"		
120	4'-7"	5'-2"		
125	_	4'-11"		
130	_	4'-9"		
135	-	4'-7"		
140	-	4'-5"		
145		4'-3"		
150	-	4'-1"		
155	-	4'-0"		
160	-	3'-10"		
165	-	3'-9"		
170	-	3-8"		

* NOTES:

(1) L+: MAXIMUM ALLOWABLE SPAN FOR A GIVEN POSITIVE A.S.D. DESIGN PRESSURE RATING. L-: MAX. ALLOWABLE SPAN FOR A GIVEN NEGATIVE A.S.D. DESIGN PRESSURE RATING

(2) PROCEDURE TO DETERMINE MAXIMUM SPAN FOR WALL MOUNTINGS OR FLOOR/CEILING:

GIVEN A POSITIVE A.S.D. DESIGN PRESSURE RATING, DETERMINE MAXIMUM SPAN "L+" FROM SCHEDULE. GIVEN A NEGATIVE A.S.D. DESIGN PRESSURE RATING, DETERMINE MAXIMUM SPAN "L-" FROM SCHEDULE.

FINAL MAXIMUM ALLOWABLE SPAN IS EQUAL TO THE MINIMUM DETERMINED SPAN BETWEEN "L+" AND "L-".

(3) GO TO ANCHOR SCHEDULE WITH FINAL MAXIMUM ALLOWABLE SPAN AND MAXIMUM A.S.D. DESIGN PRESSURE RATING TO DETERMINE MAXIMUM ANCHOR SPACING.

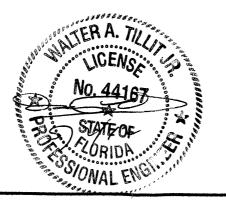
♦ SEPARATION TO GLASS SCHEDULE

MINIMUM SEPARATION TO GLASS FOR SHUTTERS INSTALLED AT ALL ELEVATIONS OF BUILDING IS 3".

INSTALLATION LEGEND				
SUBSTRATE MQUNTINGS	CONCRETE & CONCRETE BLOCK (SHEET 4)			
WALL MOUNTING	# 1, 2, 5 & 6			
FLOOR/CEILING MOUNTING	#3&4			

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0507.08 Expiration Date 05/18/20/6

Miami Dade roduct Contro



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

@ 2012 TILTECO, INC ILIECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166 Phone : (305)871-1530 . Fox : (305)871-1531

e-mail: tilleco@cal.com

EB-0006719

WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167 A OLD 11-046 02/20/12 3

HIGH IMPACT 125° ACCORDION SHUTTER SYSTEM

R.E./A.G. DRAWN BY: GENERAL IMPACT GLASS 02/20/12



12-047 DRAWING Nº

SHEET 7 OF &

DATE:

ANCHORS SPACING LEGEND

TAPCON CALK-IN

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR* SPACING (in.) SCHEDULE FOR A GIVEN MAX. SHUTTER SPAN. MAXIMUM A.S.D. DESIGN PRESSURE RATING AND A CORRESPONDING MOUNTING TYPE FOR CONCRETE INSTALLATIONS

MAXIMUM SPAN (ft)	MOUNTINGS PER SECTIONS 1 THRU 6 (SHEET 4)						
	MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)						
	50 OR LESS	>50 TO 90	>90 TO 120	>120 TO 160	>160 TO 170		
9'-0" OR LESS	6"	6"	6"	6"	6"		
	6" *	6" *	6" *	6" *	6" *		
>9'-0" UP TO 11'-0"	6"	_			-		
	6" *		-	-	-		

^{*} ANCHOR SPACING ONLY VALID FOR INSTALLATIONS AS PER SECTION 4, SHEET 4 OF 8

ANCHORS SPACING LEGEND TAPCON

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR* SPACING (in.) SCHEDULE FOR A GIVEN MAX. SHUTTER SPAN. MAXIMUM A.S.D. DESIGN PRESSURE RATING AND A CORRESPONDING MOUNTING TYPE FOR CONCRETE BLOCK INSTALLATIONS

MAXIMUM SPAN (ft)	MOUNTINGS PER SECTIONS 1, 2, 5 & 6 (SHEET 4)					
	MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)					
	50 OR LESS	>50 TO 90	>90 TO 120	>120 TO 160	>160 TO 170	
9'-0" OR LESS	6"	6"	6"	6"	6"	
>9'-0" UP TO 11'-0"	6"	_	-	-	-	

*NOTES ON ANCHOR REQUIREMENTS: POURED CONCRETE OR CONCRETE BLOCK SUBSTRATES

1. ANCHORS TO WALL SHALL RE AS EQUIPMENTS:

1. ANCHORS TO WALL SHALL BE AS FOLLOWS:

(A) TO EXISTING POURED CONCRETE: (Min. f'c = 3.350 ksi)

- 1/4" TAPCON ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS. - 1/4" CALK-IN ANCHORS AS MANUFACTURED BY POWER FASTENERS, INC.

A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF TAPCON ANCHORS IS 1 3/4", AND MINIMUM EMBEDMENT INTO POURED CONCRETE OF CALK-IN ANCHORS IS 7/8".

A.2) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, PAVERS OR ANY VENEER BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SAID WALL FINISHES. ANCHORAGE SHALL BE AS INDICATED ON NOTE A.1) ABOVE. FOR INSTALLATIONS ON VINYL SIDING OR EIFS CONSULT THIS ENGINEER.

(B) TO EXISTING ASTM C-90 CONCRETE BLOCK WALL:

- 1/4" TAPCON ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS. NOTES:
- B.1) MINIMUM EMBEDMENT INTO CONCRETE BLOCK OF TAPCON ANCHORS IS 1 1/4".

B.2) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, PAVERS OR ANY VENEER BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SAID WALL FINISHES. ANCHORAGE SHALL BE AS INDICATED ON NOTE B.1) ABOVE. FOR INSTALLATIONS ON VINYL SIDING OR EIFS

- (C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.
- (D) SEE SCHEDULE BELOW FOR EDGE DISTANCE (E.D.) VERSUS SPACING RELATIONSHIP FOR ANCHORS.

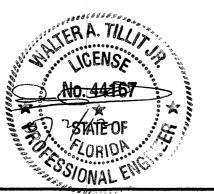
EDGE DISTANCE VERSUS SPACING FOR ANCHORS

MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3" EDGE DISTANCE FOR 1/4" TAPCON AND 1/4" CALK-IN. FOR E. D. LESS THAN THE ABOVE MENTIONED, REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS, THIS OPERATION IS ONLY ALLOWED IF REDUCED SPACING OBTAINED USING FACTOR IS NOT LESS THAN MINIMUM SPACING INDICATED FOR FACH ANCHOR TYPE

	FACTOR				
ACTUAL E. D.	1/4"ø TAPCON	1/4 ø CALK-IN			
	MIN. SPACING = 3"	NIN. SPACING = 2: 1/2"			
2 1/2"	0.66	0.50			
2"	0.50	_			

PRODUCT REVISED as complying with the Florida **Building Code** Acceptance No 12-0507.08 Expiration Date 05/18 /20/6

Miami Dade Product Contro



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

@ 2012 TILTECO, INC

ILIECO INC.

TILLIT TESTING & ENGINEERING COMPANY 5355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166 Phone : (305)871-1530 . Fax : (305)871-1531

> EB-0006719 WALTER A. TILLIT Jr. P.E FLORIDA Lig. # 44167

HIGH IMPACT 125° ACCORDION SHUTTER SYSTEM

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